

CLAIMS

We claim:

- 1 1. A synthetic cork compound comprising:
2 a methyl vinyl silicone polymer from about 20 to 60 weight percent;
3 a fumed silica filler from about 20 to 60 weight percent;
4 a microsphere agent from about 5 to 50 weight percent; and
5 a cross-linking agent from about 0.1 to 5 weight percent.

- 1 2. A synthetic cork compound according to claim 1, wherein the methyl vinyl silicone polymer
2 is polydimethylvinylsiloxane.

- 1 3. A synthetic cork compound according to claim 1, wherein the microsphere agent is soda
2 lime borosilicate.

- 1 4. A synthetic cork compound according to claim 1, wherein the cross-linking agent is chloro-
2 platonic acid.

- 1 5. A synthetic cork compound according to claim 1, wherein the cross-linking agent is
2 peroxide.

1 6. A synthetic cork compound according to claim 1 further comprising toasted oak dust from
2 about 0.1 to 25 weight percent.

1 7. A synthetic cork compound according to claim 1 further comprising:
2 toasted oak dust from about 0.1 to 25 weight percent; and
3 wherein the microsphere agent is soda lime borosilicate.

1 8. A synthetic cork compound according to claim 1 further comprising:
2 a high vinyl silicone polymer from about 0.5 to 10 weight percent;
3 toasted oak dust from about 0.1 to 25 weight percent;
4 pigment from about 0.1 to 5 weight percent;
5 silicon hydride from about 0.1 to 25 weight percent;
6 ethynl cyclohexanol from about 0.05 to 5 weight percent; and
7 wherein the cross-linking agent is chloro-platanic acid.

1 9. A synthetic cork compound according to claim 8, wherein:
2 the methyl vinyl silicone polymer is polydimethylvinylsiloxane; and
3 the microsphere agent is soda lime borosilicate.

1 10. A synthetic cork compound comprising:

2 a methyl vinyl silicone polymer of about 40.7 weight percent;

3 a fumed silica filler of about 27.1 weight percent;

4 a microsphere agent of about 26.2 weight percent; and

5 a cross-linking agent of about 0.99 weight percent.

1 11. A synthetic cork compound according to claim 10, wherein the methyl vinyl silicone

2 polymer is polydimethylvinylsiloxane.

1 12. A synthetic cork compound according to claim 10, wherein the microsphere agent is soda

2 lime borosilicate.

1 13. A synthetic cork compound according to claim 10, wherein the cross-linking agent is chloro-

2 platanic acid.

1 14. A synthetic cork compound according to claim 10, wherein the cross-linking agent is

2 peroxide.

1 15. A synthetic cork compound according to claim 10 further comprising toasted oak dust of

2 about 1.0 weight percent.

1 16. A synthetic cork compound according to claim 10 further comprising:

2 toasted oak dust of about 1.0 weight percent; and

3 wherein the microsphere agent is soda lime borosilicate.

1 17. A synthetic cork compound according to claim 10 further comprising:

2 a high vinyl silicone polymer of about 1.3 weight percent;

3 toasted oak dust of about 1.0 weight percent;

4 pigment of about 0.25 weight percent;

5 silicon hydride of about 2.3 weight percent;

6 ethynl cyclohexanol of about 0.08 weight percent; and

7 wherein the cross-linking agent is chloro-platanic acid.

1 18. A synthetic cork compound according to claim 17, wherein:

2 the methyl vinyl silicone polymer is polydimethylvinylsiloxane; and

3 the microsphere agent is soda lime borosilicate.

- 1 19. A stopper formed from a synthetic cork compound comprising:
- 2 a methyl vinyl silicone polymer from about 20 to 60 weight percent;
- 3 a fumed silica filler from about 20 to 60 weight percent;
- 4 a microsphere agent from about 5 to 50 weight percent; and
- 5 a cross-linking agent from about 0.1 to 5 weight percent.
- 1 20. A stopper according to claim 19, wherein the methyl vinyl silicone polymer is
- 2 polydimethylvinylsiloxane.
- 1 21. A stopper according to claim 19, wherein the microsphere agent is soda lime borosilicate.
- 1 22. A stopper according to claim 19, wherein the cross-linking agent is chloro-platonic acid.
- 1 23. A stopper according to claim 19, wherein the cross-linking agent is peroxide.
- 1 24. A stopper according to claim 19 further comprising toasted oak dust from about 0.1 to 25
- 2 weight percent.
- 1 25. A stopper according to claim 19 further comprising:
- 2 toasted oak dust from about 0.1 to 25 weight percent; and
- 3 wherein the microsphere agent is soda lime borosilicate.

1 26. A stopper according to claim 19 further comprising:

2 a high vinyl silicone polymer from about 0.5 to 10 weight percent;

3 toasted oak dust from about 0.1 to 25 weight percent;

4 pigment from about 0.1 to 5 weight percent;

5 silicon hydride from about 0.1 to 25 weight percent;

6 ethynl cyclohexanol from about 0.05 to 5 weight percent; and

7 wherein the cross-linking agent is chloro-platanic acid.

1 27. A synthetic cork compound according to claim 19 further comprising:
2 a high vinyl silicone polymer of about 1.3 weight percent;
3 toasted oak dust of about 1.0 weight percent;
4 pigment of about 0.25 weight percent;
5 silicon hydride of about 2.3 weight percent;
6 ethynl cyclohexanol of about 0.08 weight percent;
7 wherein the cross-linking agent is chloro-platanic acid present in an amount of about 0.99
8 weight percent;
9 wherein the methyl vinyl silicone polymer is polydimethylvinylsiloxane present in an
10 amount of about 40.7 weight percent;
11 wherein the fumed silica filler is present in an amount of about 27.1 weight percent; and
12 wherein the microsphere agent is soda lime borosilicate present in an amount of about
13 26.2 weight percent.